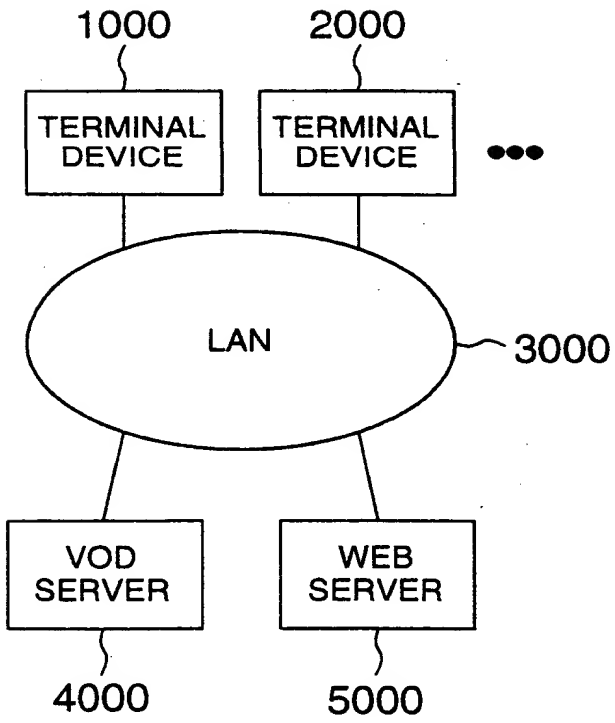
FIG.1


1000
2000
TERMINAL DEVICE
TERMINAL DEVICE
LAN
3000
VOD SERVER
WEB SERVER
4000
5000

0002TT" T2T5T260

FIG.2

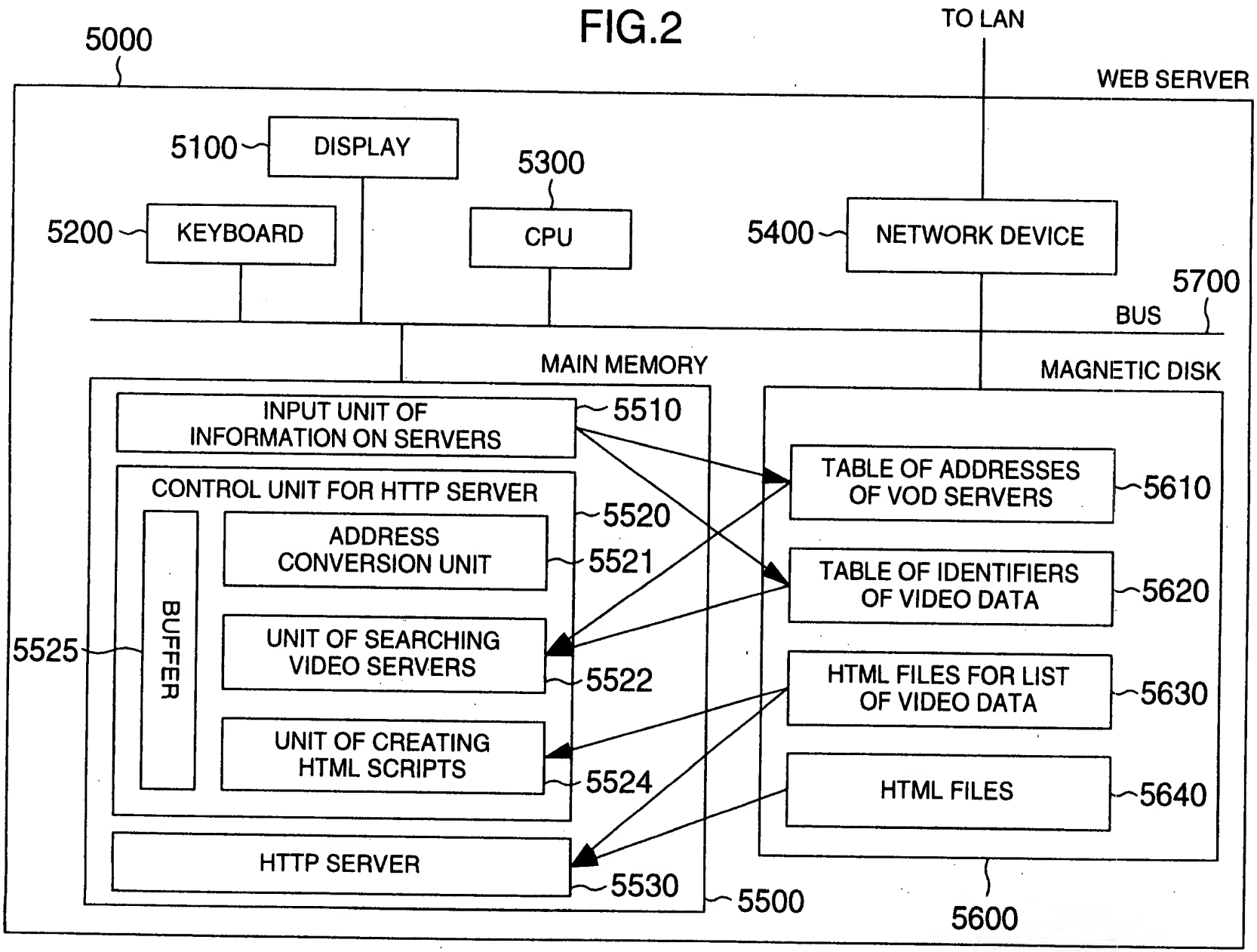


FIG.3

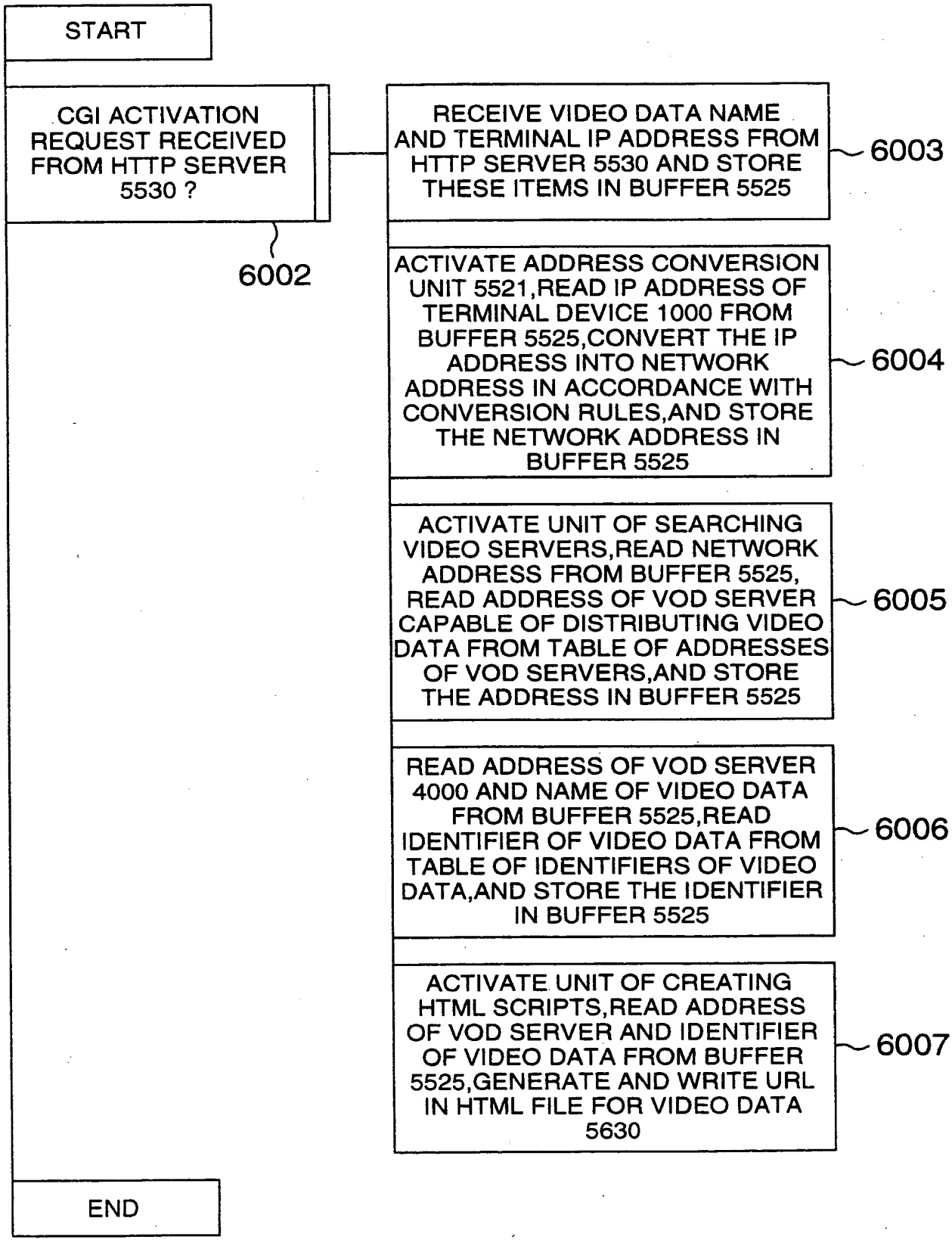

START
CGI ACTIVATION REQUEST RECEIVED FROM HTTP SERVER 5530 ?
6002
RECEIVE VIDEO DATA NAME AND TERMINAL IP ADDRESS FROM HTTP SERVER 5530 AND STORE THESE ITEMS IN BUFFER 5525
6003
ACTIVATE ADDRESS CONVERSION UNIT 5521,READ IP ADDRESS OF TERMINAL DEVICE 1000 FROM BUFFER 5525,CONVERT THE IP ADDRESS INTO NETWORK ADDRESS IN ACCORDANCE WITH CONVERSION RULES,AND STORE THE NETWORK ADDRESS IN BUFFER 5525
6004
ACTIVATE UNIT OF SEARCHING VIDEO SERVERS,READ NETWORK ADDRESS FROM BUFFER 5525, READ ADDRESS OF VOD SERVER CAPABLE OF DISTRIBUTING VIDEO DATA FROM TABLE OF ADDRESSES OF VOD SERVERS,AND STORE THE ADDRESS IN BUFFER 5525
6005
READ ADDRESS OF VOD SERVER 4000 AND NAME OF VIDEO DATA FROM BUFFER 5525,READ IDENTIFIER OF VIDEO DATA FROM TABLE OF IDENTIFIERS OF VIDEO DATA,AND STORE THE IDENTIFIER IN BUFFER 5525
6006
ACTIVATE UNIT OF CREATING HTML SCRIPTS,READ ADDRESS OF VOD SERVER AND IDENTIFIER OF VIDEO DATA FROM BUFFER 5525,GENERATE AND WRITE URL IN HTML FILE FOR VIDEO DATA 5630
6007
END

FIG.4

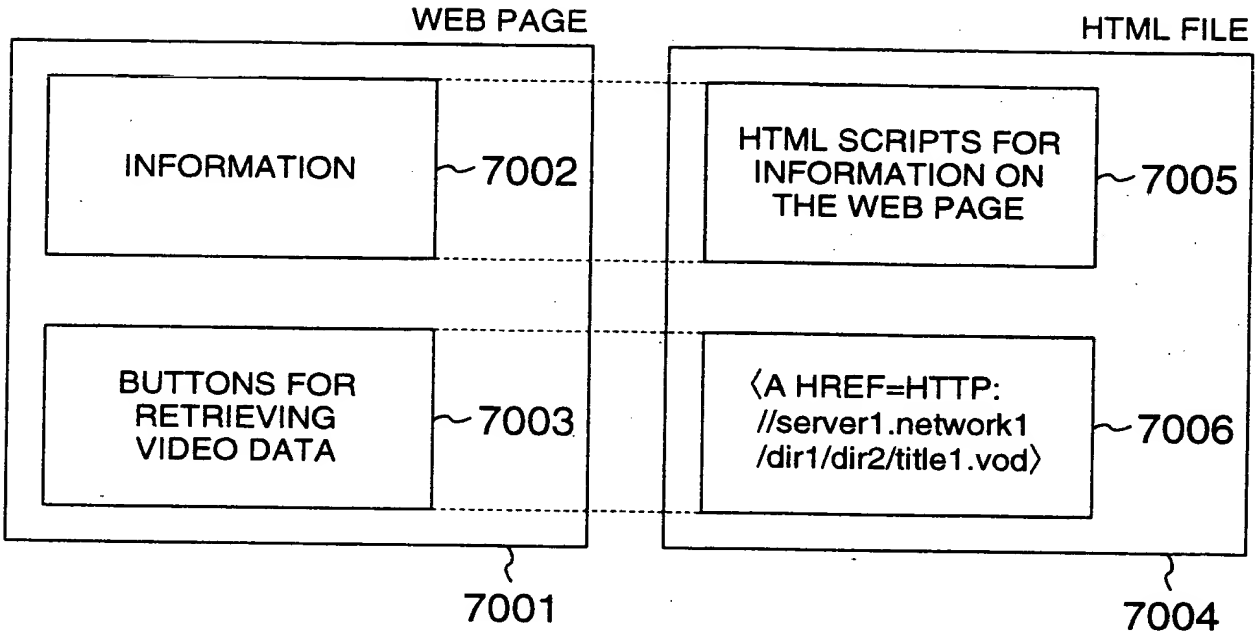


FIG.5

ADDRESSES OF TERMINAL DEVICES	VOD SERVER ADDRESSES IN VOD NETWORK
100.100.0.0	server1. network1
101.100.0.0	server2. network2
102.100.0.0	server3. network3
103.100.0.0	server4. network4
104.100.0.0	server5. network5
105.100.0.0	server6. network6
⋮	⋮

5610

5611 5612

FIG.6

INFORMATION ON VOD SERVER ADDRESSES					
NAMES OF VOD SERVERS		VOD SERVER No.1	VOD SERVER No.2	VOD SERVER No.3	•••
ADDRESSES OF VOD SERVERS		server1. network1	server2. network2	server3. network3	
NAME OF VIDEO DATA	SHOES_1	dir1/dir2/ name1	dir5/dir6/ name3	dir9/dir10/ name5	
	CAP_2	dir3/dir4/ name2	×	dir11/dir12/ name6	
	WEAR_3	×	dir7/dir8/ name4	dir13/dir14/ name7	
	⋮				
		5621	5622	5623	5624	5620

FIG.7

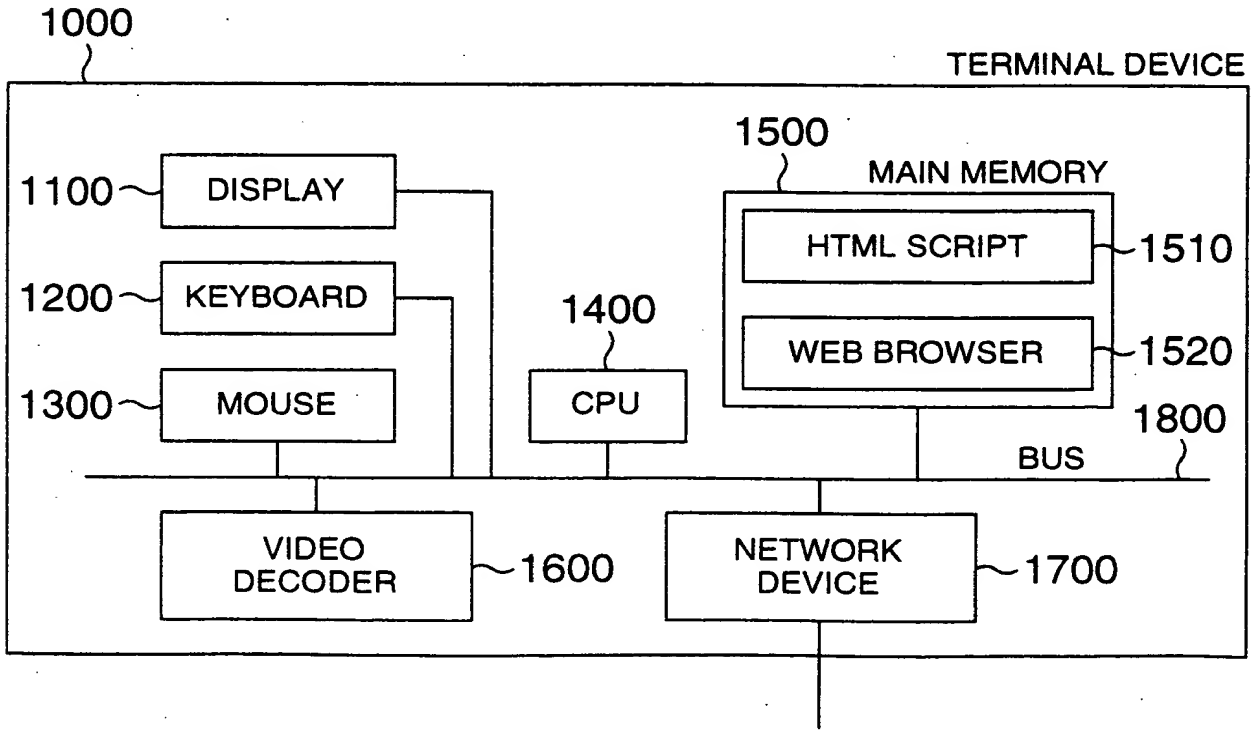


FIG.8

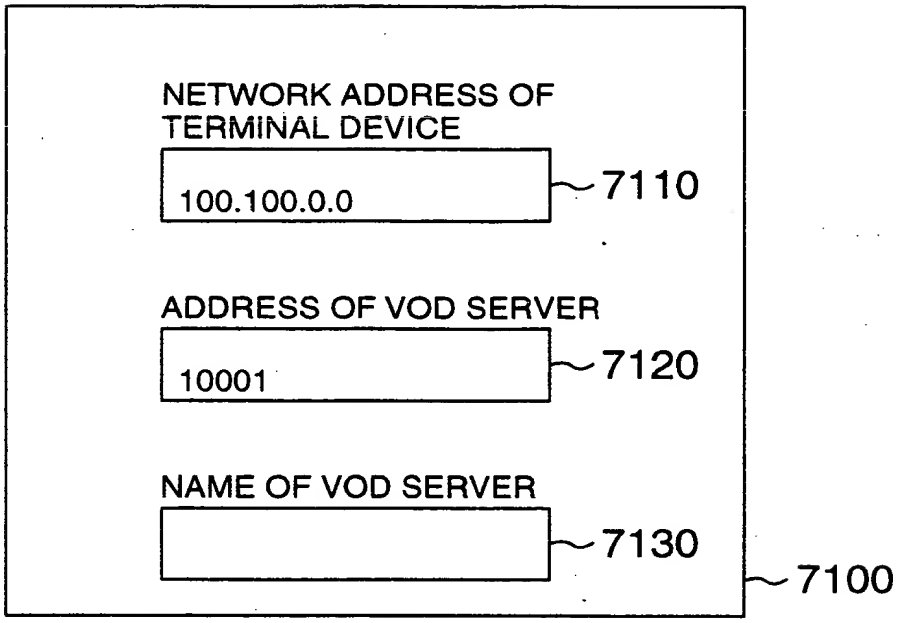
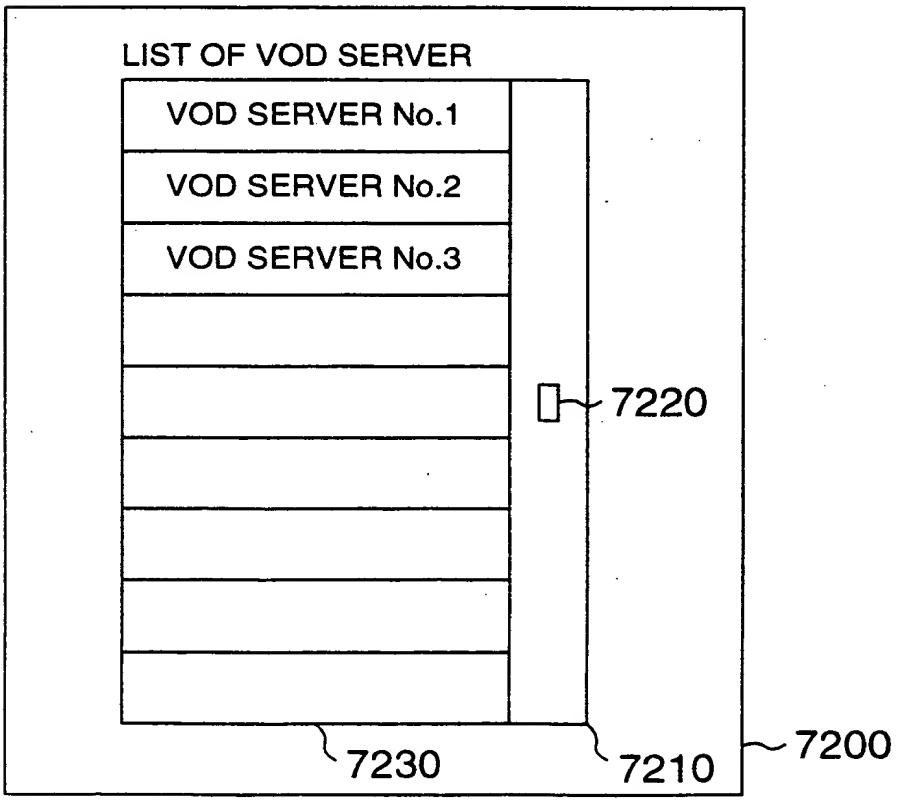


FIG.9



09/712,506 - 11/20/00

FIG.10

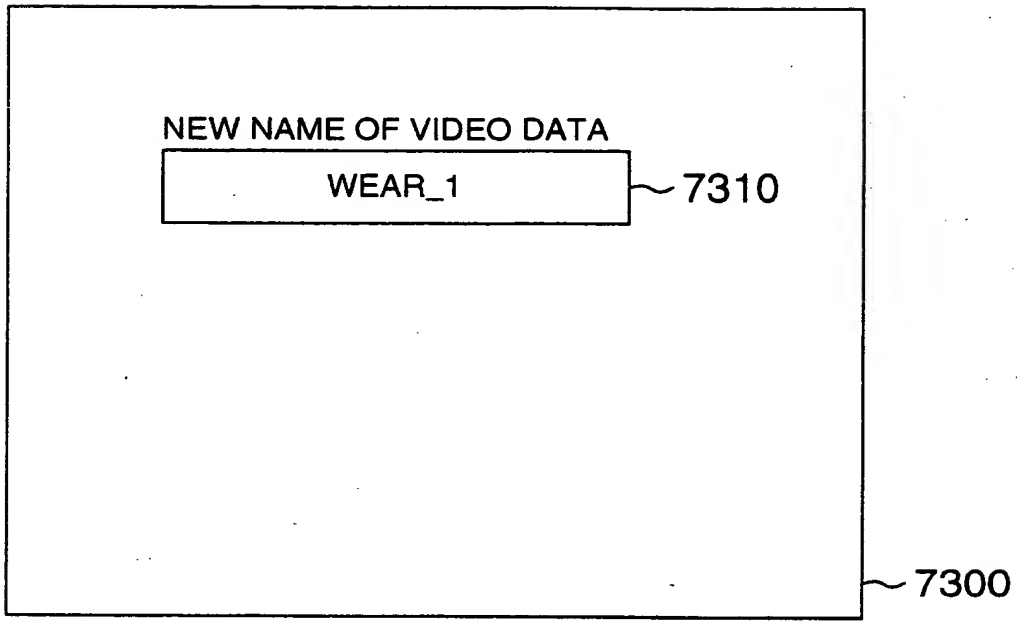
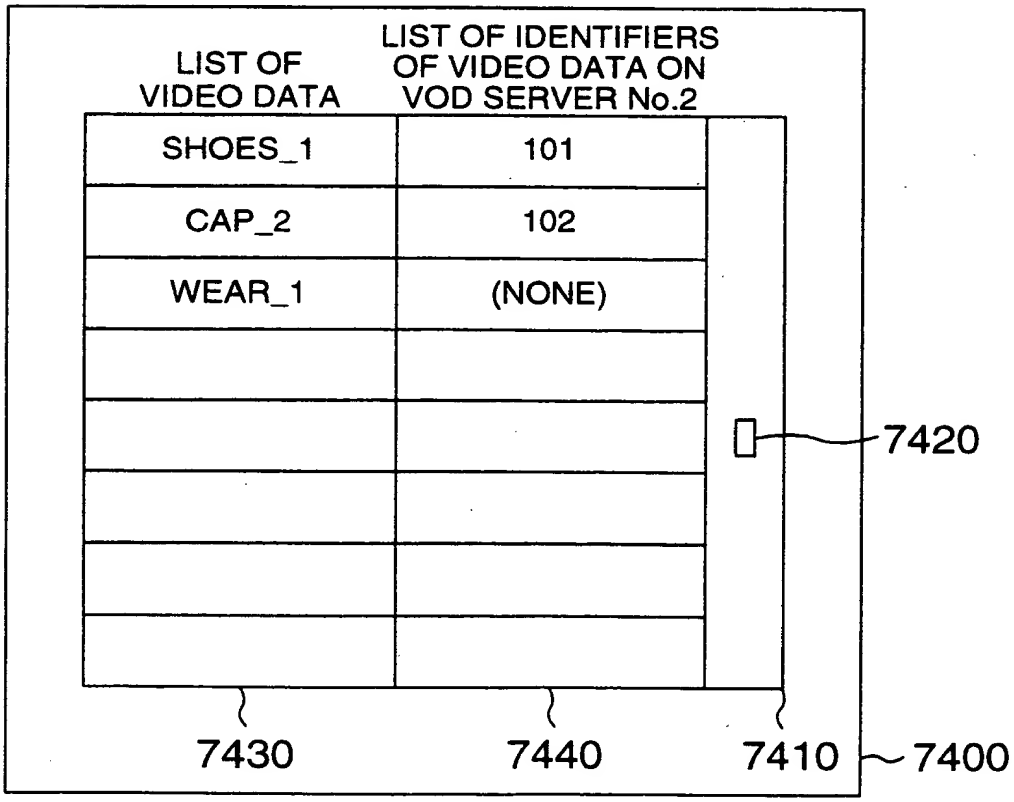

NEW NAME OF VIDEO DATA
WEAR_1
7310
7300

FIG.11


LIST OF VIDEO DATA
LIST OF IDENTIFIERS OF VIDEO DATA ON VOD SERVER No.2
SHOES_1
101
CAP_2
102
WEAR_1
(NONE)
7420
7430
7440
7410
7400

0002TT"T2TST260

FIG.12

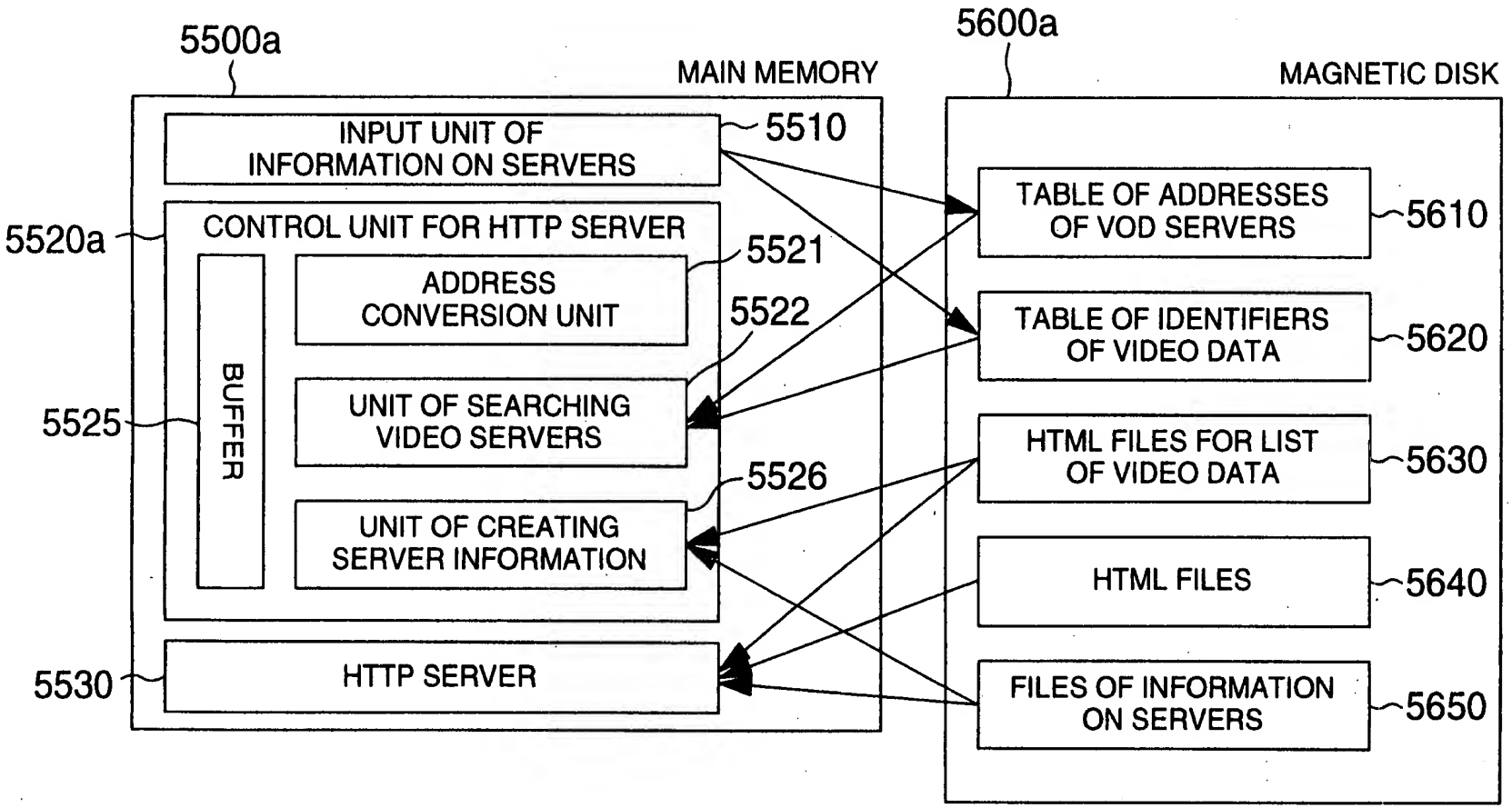
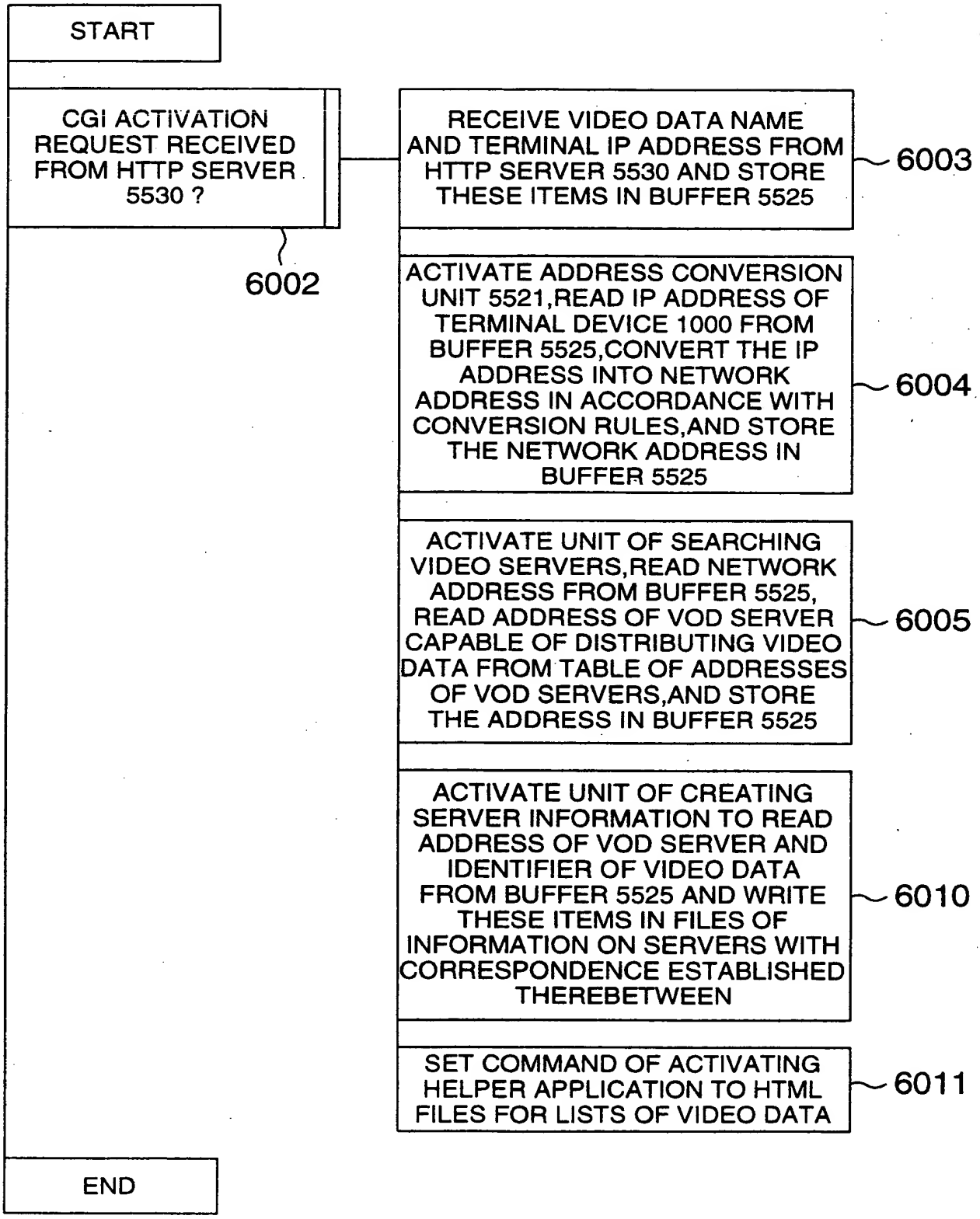


FIG.13



0024-1245-0900

FIG.14

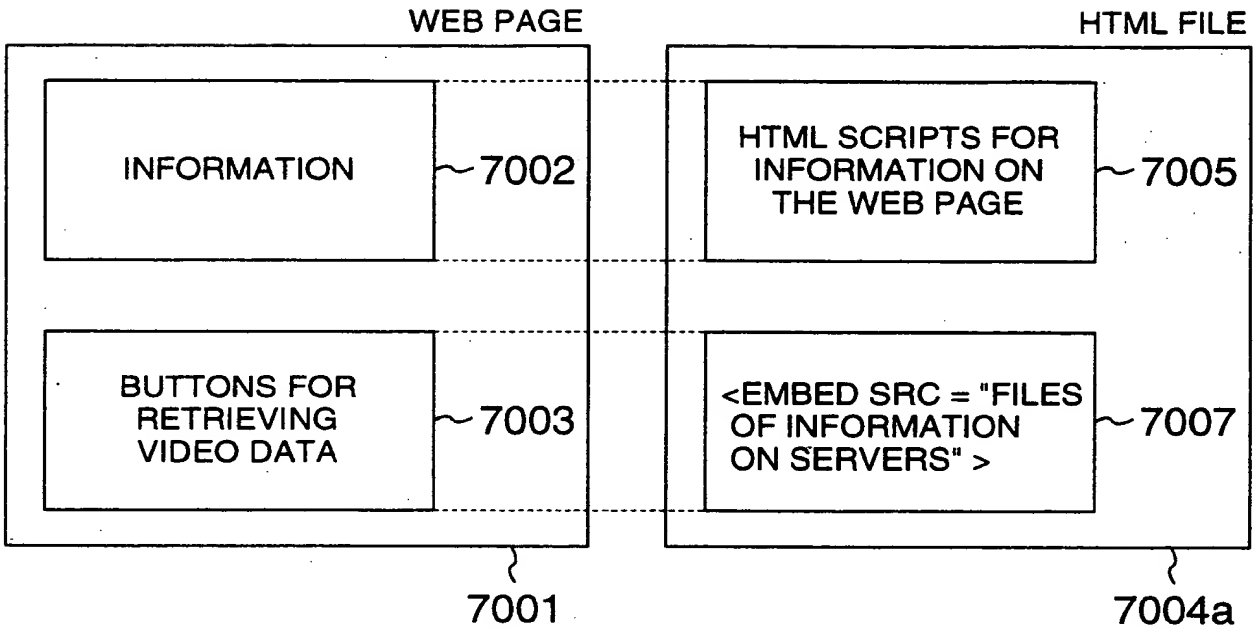

WEB PAGE
HTML FILE
INFORMATION
7002
HTML SCRIPTS FOR INFORMATION ON THE WEB PAGE
7005
BUTTONS FOR RETRIEVING VIDEO DATA
7003
<EMBED SRC = "FILES OF INFORMATION ON SERVERS" >
7007
7001
7004a

FIG.15

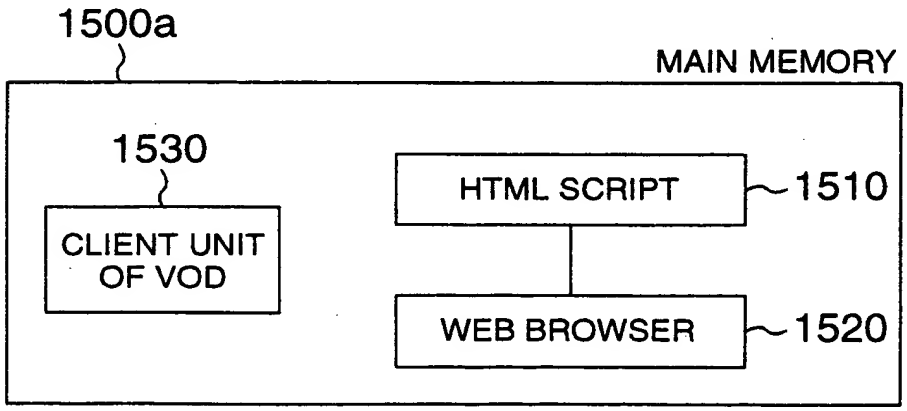

1500a
MAIN MEMORY
1530
CLIENT UNIT OF VOD
HTML SCRIPT
1510
WEB BROWSER
1520

FIG.16

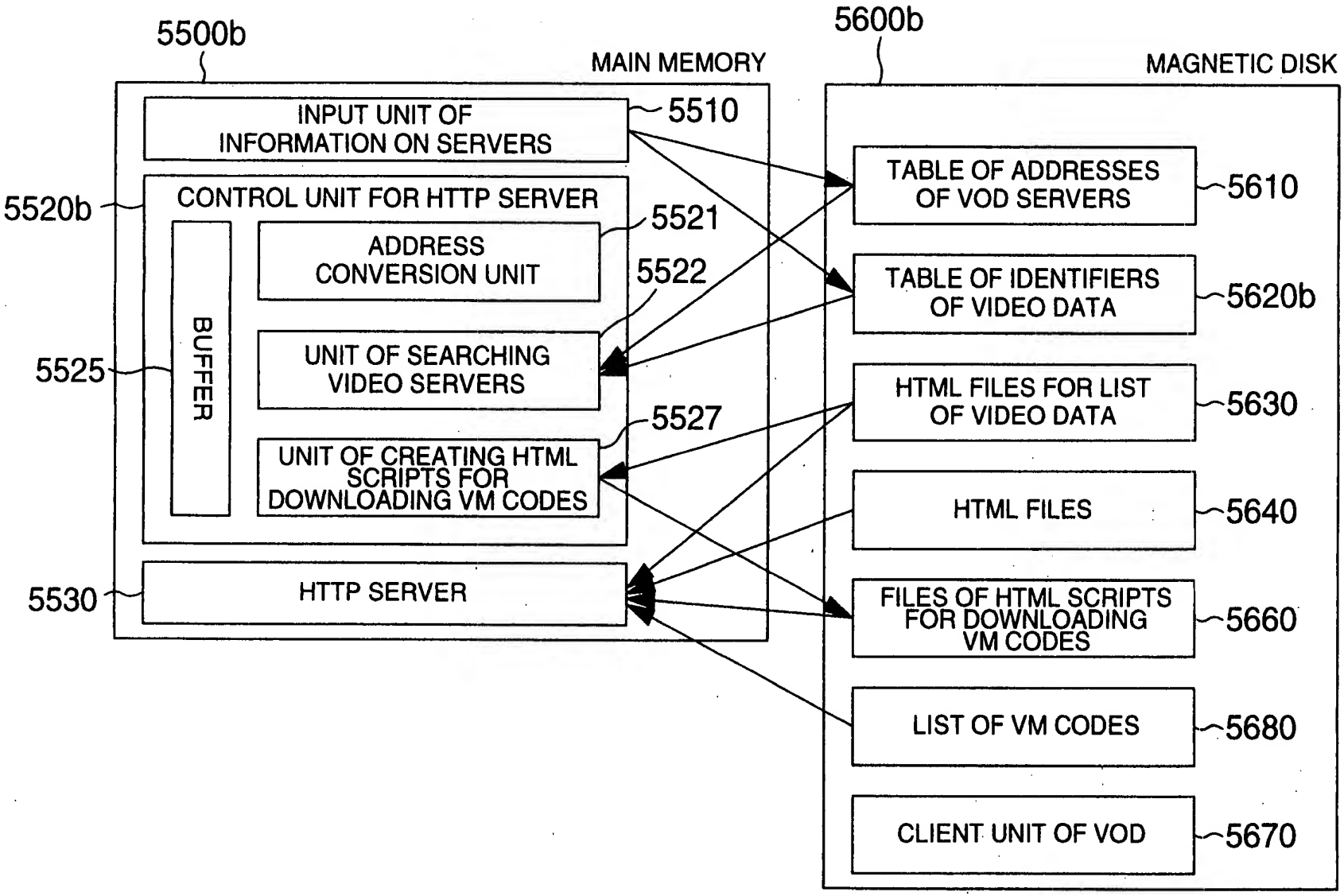
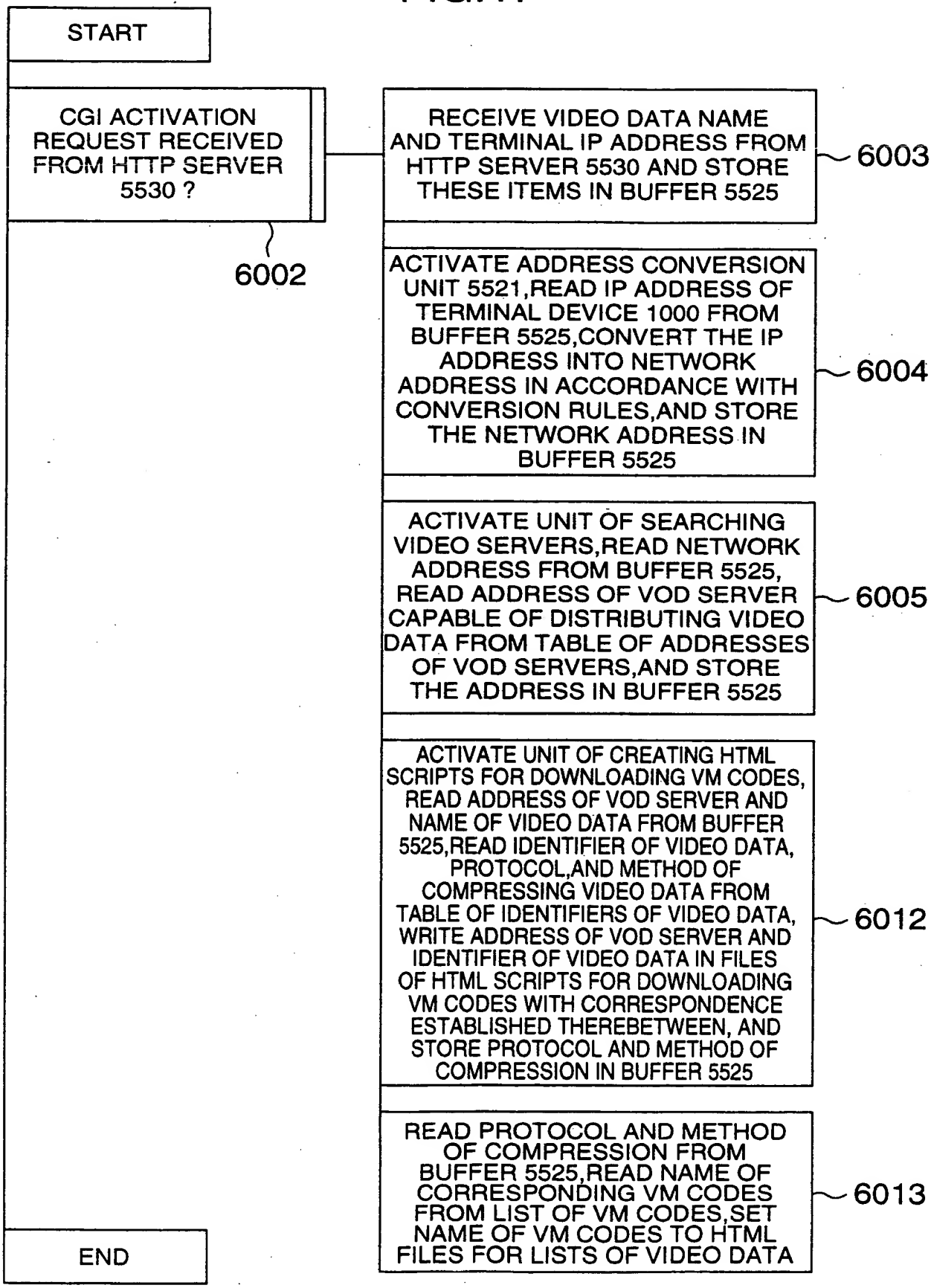

5500b
MAIN MEMORY
INPUT UNIT OF INFORMATION ON SERVERS
5510
CONTROL UNIT FOR HTTP SERVER
5520b
BUFFER
ADDRESS CONVERSION UNIT
5521
5522
UNIT OF SEARCHING VIDEO SERVERS
5525
UNIT OF CREATING HTML SCRIPTS FOR DOWNLOADING VM CODES
5527
HTTP SERVER
5530
5600b
MAGNETIC DISK
TABLE OF ADDRESSES OF VOD SERVERS
5610
TABLE OF IDENTIFIERS OF VIDEO DATA
5620b
HTML FILES FOR LIST OF VIDEO DATA
5630
HTML FILES
5640
FILES OF HTML SCRIPTS FOR DOWNLOADING VM CODES
5660
LIST OF VM CODES
5680
CLIENT UNIT OF VOD
5670

FIG.17



0025-1121-1400

FIG.18

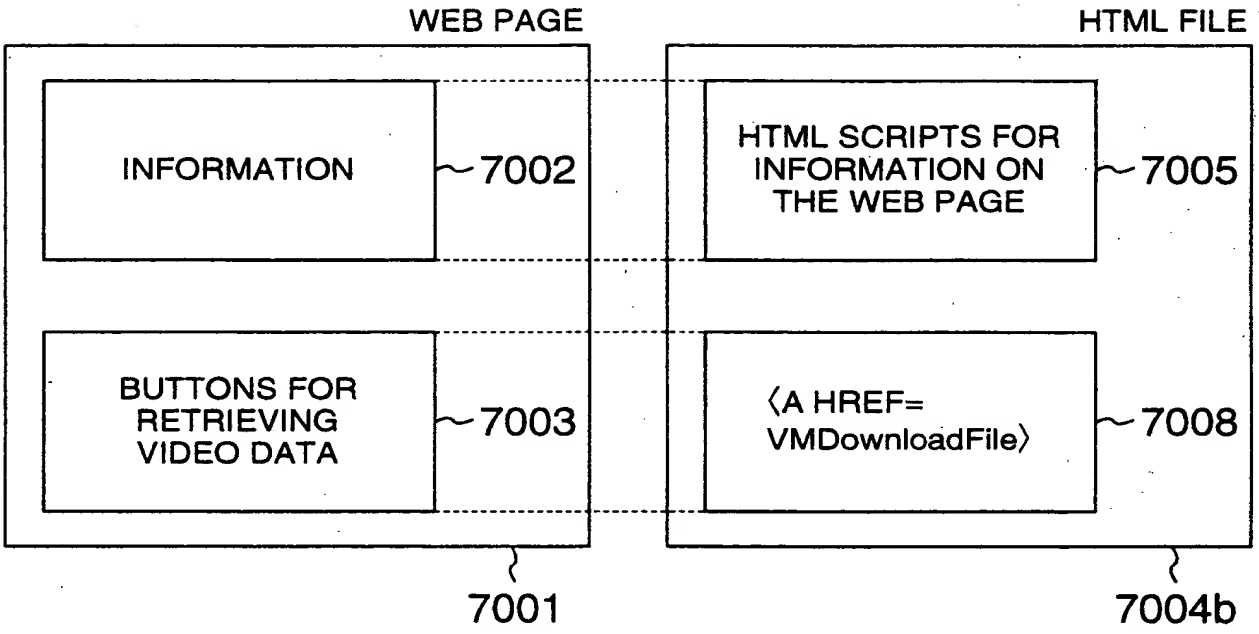

WEB PAGE
HTML FILE
INFORMATION
7002
HTML SCRIPTS FOR INFORMATION ON THE WEB PAGE
7005
BUTTONS FOR RETRIEVING VIDEO DATA
7003
〈A HREF= VMDownloadFile〉
7008
7001
7004b

FIG.19

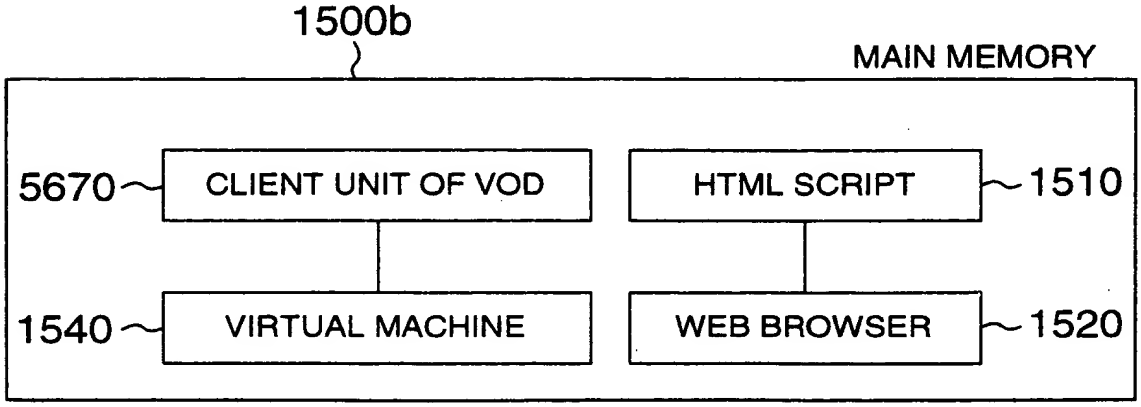

1500b
MAIN MEMORY
5670
CLIENT UNIT OF VOD
HTML SCRIPT
1510
1540
VIRTUAL MACHINE
WEB BROWSER
1520

FIG.20

INFORMATION ON VOD SERVER ADDRESSES					
NAMES OF VOD SERVERS		VOD SERVER No.1	VOD SERVER No.2	VOD SERVER No.3	•••
ADDRESSES OF VOD SERVERS		10001	10002	10003	
NAME OF VIDEO DATA	SHOES_1	101	201	301	
		TCP	UDP	HTTP	
		MPEG1	MPEG2	MPEG4	
	CAP_2	102	×	302	
		UDP		TCP	
		MPEG1		MPEG4	
	WEAR_3	×	203	303	
			TCP	UDP	
			MPEG1	MPEG2	
	• • •				

5621 5625 5626 5627 5620b

FIG.21

PROTOCOL / METHOD OF COMPRESSION	UDP	TCP	HTTP	•••	
MPEG1	VodApp1	VodApp2	VodApp3		5684
MPEG2	VodApp4	VodApp5	VodApp6		5685
JPEG	VodApp7	VodApp8	VodApp9		5686
• • •					

5681 5682 5683 5680